

**Claims**

1. Air conditioner that comprises, in an air passageway through which an airflow from an air intake port towards a clean air discharge port is formed, at the least, an air blower for generating airflow, an evaporator and, arranged in the upstream airflow side and/or downstream airflow side of said evaporator, a synthetic polymer case in which an antibacterial agent impregnated in a medium such as a porous body or water-absorbing polymer is sealed, which air conditioner is characterized in that the thickness of the wall of the abovementioned case is formed to allow gas permeation of the antibacterial agent, and in that the thickness of the wall on the downstream airflow side is less than the thickness of the wall on the upstream airflow side.
2. Air conditioner according to Claim 1, characterized in that the abovementioned evaporator is a single tank-type in which the tank part is provided in one end, or is a double tank-type in which tank parts are provided in both ends, wherein the abovementioned case is juxtaposedly arranged with the abovementioned tank part.
3. Air conditioner according to Claim 2, characterized in that the abovementioned case does not project from the abovementioned tank part with respect to the direction of airflow.
4. Air conditioner according to Claims 1, 2 and 3, characterized in that the abovementioned case is detachably fixed to a filter frame arranged in the

upstream airflow side of the abovementioned evaporator.

5. Air conditioner that comprises, in an air passageway through which an airflow from an air intake port towards a clean air discharge port is formed, at the least, an air blower for generating airflow, an evaporator of a single tank-type in which a tank is provided in one end or a double tank-type type in which tank parts are provided in both ends and, arranged in the upstream airflow side and/or downstream airflow side of said evaporator, a synthetic polymer case in which an antibacterial agent impregnated in a medium such as a porous body or water-absorbing polymer is sealed, which air conditioner is characterized in that the thickness of the wall of the abovementioned case is formed to allow gas permeation of the antibacterial agent, and in that the thickness of the wall on the abovementioned elevator side is less than the thickness of the wall on the downstream airflow side.
6. Air conditioner according to Claim 5, characterized in that the abovementioned case does not project from the abovementioned tank part with respect to the direction of airflow.
7. Air conditioner according to Claims 1, 2, 3, 4, 5 and 6, characterized in that the abovementioned case is formed from polypropylene, and in that the abovementioned antibacterial agent is allyl isothiocyanate.
8. Air conditioner according to Claims 1, 2, 3, 4, 5, 6 and 7, characterized in that the abovementioned case is formed by the assembly of a plurality of small cases detachably fixed to each other.

- 5 9. Synthetic polymer case in which an antibacterial agent impregnated in a medium such as a porous body or water-absorbing polymer is sealed and in which the thickness of the wall is formed to allow gas permeation of the antibacterial agent, which antibacterial case is characterized in that the thickness of one wall of said case is formed thinner than the wall opposing said wall.
- 10 10. Antibacterial case according to Claim 9, characterized in that the abovementioned case is formed from polypropylene, and in that the abovementioned antibacterial agent is allyl isothiocyanate.
- 15 11. Antibacterial case according to Claims 9 and 10, characterized in that the abovementioned case is formed by the assembly of a plurality of small cases detachably fixed to each other.
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